

Statewide Average Highway Improvement Costs - 2003

Improvement Type	Cost/Mile (\$2003)	General Notes
Resurface ¹⁻⁵		1. Costs DO NOT include design engineering, these costs are typically 15% to 20% of construction costs.
Rural (2-Lane)	\$215,000	1a. In general, use 20% design engineering for construction projects < \$500,000, bridge replacements or complex projects
Rural (Multilane)	\$420,000	2. Costs DO NOT include State design review, these costs are typically 20% of design engineering, minimum \$5,000.
Urban (2-Lane)	\$480,000	2a. This covers plan review, bid advertisement & printing/mailling of plans to bidders.
Urban (Multilane)	\$725,000	3. Costs are AVERAGES and include construction engineering, real estate & utility relocations.
Recondition - Minor ¹⁻⁵		3a. Costs will vary depending on project complexity.
Rural (2-Lane)	\$360,000	3b. Costs DO NOT include extraordinary items such as: traffic signals, HAZMAT mitigation, railroad crossings etc..
Rural (Multilane)	\$520,000	3c. Costs are expressed in 2003 (current year) dollars
Urban (2-Lane)	\$690,000	3d. For budgeting purposes, project current year to future year dollars using 3% inflation per year
Urban (Multilane)	\$1,420,000	3e. Projects which contain: rock ecavation, challenging soils, complex traffic control/staging etc..cost/mile may be higher
Recondition - Major ¹⁻⁵		4. Rural Roadway - presence of side ditches, no curb & gutter, no storm sewer and costs based on standard lane width of 12 feet.
Rural (2-Lane)	\$555,000	5. Urban Roadway - presence of curb & gutter and costs based on pavement width from curb face - curb face
Rural (Multilane)	\$1,750,000	6. Unit Price Costs are based on statewide averages from WisDOT lettings
Urban (2-Lane)	\$975,000	7. Costs DO NOT include geometric improvements to the intersection, includes traffic signal hardware & installation
Urban (Multilane)	\$3,250,000	7a. Secure a qualified design consultant familiar with traffic signal design
Pavement Replacement ¹⁻⁵		8. General cost to produce, haul, and place asphaltic concrete pavement, costs DO NOT include CABC or prep of foundaion
Rural (2-Lane)	\$295,000	
Rural (Multilane)	\$875,000	
Urban (2-Lane)	\$720,000	
Urban (Multilane)	\$1,000,000	
Reconstruction ¹⁻⁵		
Rural (2-Lane)	\$1,205,000	
Rural (Multilane)	\$2,300,000	
Urban (2-Lane)	\$2,100,000	
Urban (Multilane)	\$4,000,000	
Bridge ¹⁻³	Project Costs	Structure Costs Only
Bridge Replacement < 1500 SF	\$130/S.F.	\$90/S.F.
Bridge Replacement > 1500 SF	\$90/S.F.	\$75/S.F.
Bridge Deck Replacement	\$60/S.F.	\$45/S.F.
Bridge Deck Overlay	\$15/S.F.	\$12/S.F.
Box Culverts	\$1100/L.F./BARREL	\$900/L.F./BARREL
Retaining Walls ¹⁻³		
Split Block	\$25-30/S.F.	
Cast-in-Place	\$70/S.F.	
MSE (Mech. Stab. Earth)	\$30/S.F.	

Miscellaneous Improvements & Unit Price Costs ⁶	
Signalization of Intersection ⁷	\$85,000 - \$100,000 EACH
Overhead Lighting Pole Assembly (150' ave spacing)	\$1,800 EACH
Overhead Lighting - Wire & Conduit	\$3.50/L.F.
Mill/AC Overlay/CABC Shoulders	\$75,000 - \$100,000/MILE
AC Overlay - CRC w/County	\$60,000-\$70,000/MILE
AC Shoulders Only	\$12,000/MILE
Asphaltic Concrete Pavement ⁸	\$60/TON
PCC Joint Repair (through two travel lanes)	\$850/joint
Retro-Fit Dowel Bars	\$30 EACH
Milling - AC Pavement	\$1.50 - \$2.00/S.Y.
Diamond Grinding PCC Pavement	\$2.00 - \$2.50/S.Y.
Common Excavation	\$2.50/C.Y.
Crushed Aggregate Base Course	\$7.00/TON
PCC Pavement - 9"	\$20.00/S.Y.
Storm Sewer Pipe - 18"	\$32/L.F.
Inlets - Type 3 (250' ave spacing)	\$600 EACH
Inlet Covers - Type H	\$300 EACH
Manholes - Type 3 (@ all junctions)	\$2,150 EACH
Manhole Covers - Type L	\$245 EACH
Concrete Sidewalk - 4"	\$2.25/S.F.
Concrete Sidewalk - 6"	\$2.80/S.F.
Concrete Curb & Gutter	\$8.00/L.F.
Concrete Driveway	\$24.00/S.Y.
Beam Guard	\$10.00/L.F.
Beam Guard Anchorages & Grading	\$2,500/End Treatment
Culvert Pipe - 36"	\$38/L.F.
Culvert Pipe Endwall - 36"	\$350 EACH
Reinforced Concrete Culvert Pipe - 36"	\$62/L.F.
Reinforced Concrete Culvert PipeEndwall - 36"	\$725 EACH
Riprap	\$45/C.Y.